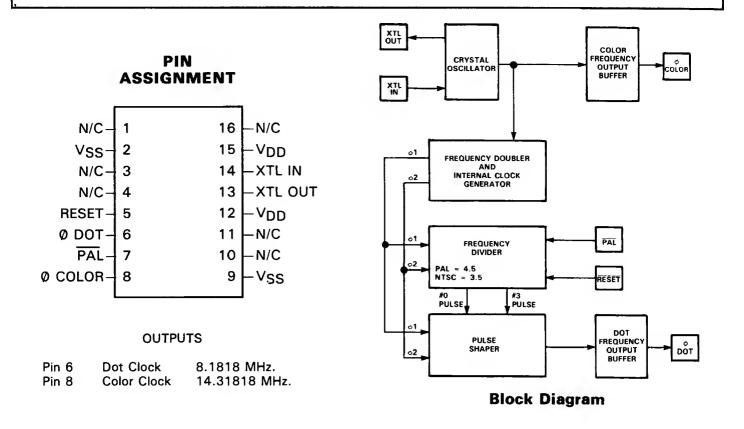
8701 CLOCK GENERATOR

FOLD OUT SCHEMATIC SHEET 3, PAGE 75, FOR EASY REFERENCE.



The oscillator circuit uses an external crystal to generate a precise frequency, compatible with either PAL or NTSC video systems. This frequency can be fine-adjusted using an external trimmer capacitor. The output of this oscillator is buffered and becomes the color clock output. It also goes to the frequency doubler circuit. From there, a pair of non-overlapping clocks are generated (PHI1 and PHI2). These go to the frequency divider which in turn generate a pair of signals, #0 pulse and #3 pulse. Their frequency is determined by the state of the PAL/NTSC input pin. These two pulses go through some digital delays, and with the help of PHI1 and PHI2 are re-combined to form the dot clock frequency. This signal is then buffered and sent out via the dot clock pin.

